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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

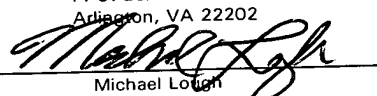
Applicant: CANTOR *et al.*  
Serial No.: 09/030,571  
Confirmation No.: 7542  
Filed: February 24, 1998  
For: *POSITIONAL SEQUENCING BY  
HYBRIDIZATION*  
Art Unit: 1634  
Examiner: Forman, B. J.

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

"Express Mail" Mailing Label No.: EV 175674613 US  
Date of Deposit: October 7, 2002

I hereby certify that this paper and the attached papers are being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and addressed to:

Commissioner for Patents  
U.S. Patent and Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

  
Michael Lohm

TRANSMITTAL LETTER

Commissioner for Patents  
P. O. Box 2327  
Arlington, VA 22202

Dear Sir:


Transmitted herewith are an Amendment, responsive to the Office Action, mailed June 5, 2002; a Terminal Disclaimer, a check for \$220 for the fees for a one month extension of time and a Terminal Disclaimer; marked up claims showing changes made in accord with 37 CFR §1.121; and a return postcard in connection with the above-captioned patent application. If a Petition for extension of time is needed, this paper is to be considered such Petition.

Extension fee for response within the first month:

(X) By a small entity.....\$110.00.

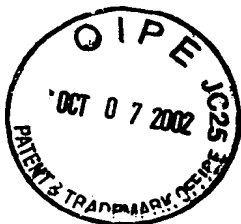
☒ The Commissioner is hereby authorized to charge the deficiency in the above check and any fee that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
Heller Ehrman White & McAuliffe LLP

By:   
Stephanie Seidman  
Registration No. 33, 779

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Michael Lough

AMENDMENT

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Commissioner for Patents  
P. O. Box 2327  
Arlington, VA 22202

Dear Sir:

Responsive to the Office Action, mailed June 5, 2002, entry of the following amendments and consideration of the following remarks are respectfully requested.

IN THE CLAIMS:

Please cancel claims 71, 89-91 and 114-116 without prejudice or disclaimer.

Please add new claims 117-120 as follows:

117. (New) The array of claim 74, wherein the coupling agent is selected from the group consisting of antibody/antigen, biotin/streptavidin, *Staphylococcus aureus* protein A/IgG antibody F<sub>c</sub> fragment, nucleic acid/nucleic acid binding protein, and streptavidin/protein A chimeras.

118. (New) The array of claim 74, comprising about 4<sup>R</sup> different nucleic acid probes.

119. (New) An array, comprising up to 4(2<sup>R</sup>-1) nucleic acid probes, wherein each probe comprises a random nucleotide sequence of length R.

120. (New) The array of claim 74, wherein the random nucleotide sequence of length R in the single-stranded portion in 50% or more of the probes of the array is replaced with a nucleotide sequence of length R + L,